

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

Site No. 19060000-
Busin Index 13CC

WATERPOWER OF THE UNITED STATES

State Alaska Stream McHenry Creek - ETOHIN Island Site McHENRY LAKE

County FIRST JUDICIAL DISTRICT Owner _____
Mer. Copper River T. 67 S R. 84 E Sec. 13 Constructed _____
Lat. 56 ° 02 ' 30 " Long. 132 ° 22 ' 30 " Storage 10,000 [✓] of _____ m³
Miles above mouth 1.5 [✓] Installable capacity _____ mw
Drainage Area 13.4 [✓] sq. mi. _____ sq. km Annual generation _____ mwh
Secondary energy _____ mwh

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	22		289 3/4		239		50 1/2			Firm
50	144									
mean	160 1/2								0.680	

Remarks: Flows need to be EVALUATED, FISHYETAL MAP ^{3/} indicates lower Rainfall than was USED IN 1947 Report.
If powerhouse were located at mouth of McHenry Creek, Head = 289-0 = 289, T. power = 3.930mw, conduit = 6000 [✓] feet
^{1/} See "Waterpowers of Southeast Alaska", FPC & USFS, 1947, pg 92
^{2/} See "A Proposed streamflow Data Program in Alaska" USGS, 1970, pg 34
^{3/} 1947 report ^{4/} calls for raising lake level 33'; Quad shows surface elevation as 256 feet.

WATERPOWER OF THE UNITED STATES

State	Alaska	Stream	McHenry Lake	Site	McHenry Lake
County	First Judicial Division			Owner	
Mer.	Copper R.T. 675	R.	84 E	Sec.	13
Lat.	56°02.5 ' "	Long.	132 °22.5 ' "	Storage	10,000 of 12,334,900 m ³
Miles above mouth				Installed capacity	mw
Drainage Area	13.4	sq. mi.	34.71	sq. km	Installable capacity mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m³/sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	22	0.6	250	76.2	10	3.0	240	73.2	0.45	
50	144	4.1							2.94	
mean	160	4.5							3.26	22,820

Remarks: Etolin Island - Petersburg A-2

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

Basin Index _____

WATERPOWER OF THE UNITED STATES

State Alaska Stream McHenry Lake Site McHenry Lake

County First Judicial Division

Mer. 02 T. R. 5 Sec. 22

Lat. 56° 02.5' " Long. 132° 22.5' "

Miles above mouth 22

Drainage Area 13.4 sq.mi. 34.71 sq.km

Owner _____

Constructed 12334900

Storage 10,000 af 2,334,900. m³

Installed capacity _____ mw

Installable capacity _____ mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m³/sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	22	1.6	250	76.2	10	3.0	240	73.2	516.520	45
50	144	4.1							3378.338	294
mean	160	4.5							3754.2	26,250

Remarks:

Prepared by _____ Date _____

Petersburg A-2